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OM protein - protein search, using sw model

Run on: June 18, 2003, 17:14:36 ; Search time 72.5077 Seconds  
(without alignments)  
504.414 Million cell updates/sec

Title: US-09-807-933B-1  
Perfect score: 1836  
Sequence: 1 MFFITASSALLALALGTEM.....TYKEVTCPEKTRAKTGSRRK 338

Scoring table: BLOSUM62  
Gapop 10.0 , Gapext 0.5

Searched: 417779 seqs, 108206813 residues  
Total number of hits satisfying chosen parameters: 417779

Minimum DB seq length: 0  
Maximum DB seq length: 200000000

Post-processing: Minimum Match 0%  
Maximum Match 100%  
Listing first 45 summaries

- Database : Published Applications AA.\*
- 1: /cgn2\_6/ptodata/2/pubpaa/US08\_NEW\_PUB.pep.\*
  - 2: /cgn2\_6/ptodata/2/pubpaa/PCT\_NEW\_PUB.pep.\*
  - 3: /cgn2\_6/ptodata/2/pubpaa/US06\_NEW\_PUB.pep.\*
  - 4: /cgn2\_6/ptodata/2/pubpaa/US07\_NEW\_PUB.pep.\*
  - 5: /cgn2\_6/ptodata/2/pubpaa/US06\_PUBCOMB.pep.\*
  - 6: /cgn2\_6/ptodata/2/pubpaa/US07\_PUBCOMB.pep.\*
  - 7: /cgn2\_6/ptodata/2/pubpaa/PCTUS\_PUBCOMB.pep.\*
  - 8: /cgn2\_6/ptodata/2/pubpaa/US08\_PUBCOMB.pep.\*
  - 9: /cgn2\_6/ptodata/2/pubpaa/US09\_NEW\_PUB.pep.\*
  - 10: /cgn2\_6/ptodata/2/pubpaa/US05\_PUBCOMB.pep.\*
  - 11: /cgn2\_6/ptodata/2/pubpaa/US10\_NEW\_PUB.pep.\*
  - 12: /cgn2\_6/ptodata/2/pubpaa/US10\_PUBCOMB.pep.\*
  - 13: /cgn2\_6/ptodata/2/pubpaa/US60\_NEW\_PUB.pep.\*
  - 14: /cgn2\_6/ptodata/2/pubpaa/US60\_PUBCOMB.pep.\*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	ID	Description
1	756.5	41.2	229	US-10-007-521-12	Sequence 12, Appl
2	755.5	41.1	295	US-10-007-521-2	Sequence 2, Appl
3	755.5	41.1	297	US-10-007-521-4	Sequence 4, Appl
4	755.5	41.1	308	US-10-007-521-6	Sequence 6, Appl
5	750.5	40.9	205	US-09-261-329-7	Sequence 7, Appl
6	743.5	40.5	201	US-09-261-329-5	Sequence 5, Appl
7	743.5	40.1	201	US-09-261-329-4	Sequence 4, Appl
8	722	39.3	349	US-10-007-521-10	Sequence 10, Appl
9	718	39.1	310	US-10-007-521-22	Sequence 22, Appl
10	716.5	39.0	203	US-09-261-329-9	Sequence 9, Appl
11	716.5	39.0	222	US-10-007-521-14	Sequence 14, Appl
12	716.5	39.0	294	US-10-007-521-24	Sequence 24, Appl
13	703	38.3	202	US-09-261-329-3	Sequence 3, Appl
14	695.5	37.9	235	US-08-841-636A-31	Sequence 31, Appl
15	694	37.8	376	US-09-735-787-4	Sequence 4, Appl
16	684.5	37.3	203	US-09-261-329-6	Sequence 6, Appl
17	680	37.0	305	US-09-735-787-2	Sequence 2, Appl
18	679	37.0	202	US-09-261-329-1	Sequence 1, Appl
19	670	36.5	295	US-10-007-521-8	Sequence 8, Appl

20	667.5	36.4	226	US-10-007-521-16	Sequence 16, Appl
21	667.5	36.4	293	US-10-007-521-20	Sequence 20, Appl
22	667.5	36.4	298	US-10-007-521-18	Sequence 18, Appl
23	659.5	35.9	203	US-09-261-329-8	Sequence 8, Appl
24	655	35.7	202	US-09-261-329-2	Sequence 2, Appl
25	510.5	27.8	211	US-09-261-329-11	Sequence 11, Appl
26	491.5	26.8	235	US-09-261-329-10	Sequence 10, Appl
27	437.5	23.8	138	US-10-007-521-26	Sequence 26, Appl
28	222	12.1	493	US-10-197-294A-2	Sequence 2, Appl
29	221.5	12.1	75	US-10-007-521-32	Sequence 32, Appl
30	194.5	10.6	57	US-10-007-521-52	Sequence 52, Appl
31	190.5	10.4	59	US-10-007-521-34	Sequence 34, Appl
32	186	10.1	39	US-09-916-494A-4	Sequence 4, Appl
33	184	10.0	454	US-10-213-996-9	Sequence 9, Appl
34	178	9.7	2014	US-10-123-155-547	Sequence 547, App
35	176.5	9.6	60	US-10-007-521-42	Sequence 42, Appl
36	175.5	9.6	60	US-10-007-521-70	Sequence 70, Appl
37	169.5	9.2	55	US-10-007-521-78	Sequence 78, Appl
38	169.5	9.2	1422	US-09-735-933-1	Sequence 1, Appl
39	169	9.2	1591	US-10-073-912-13	Sequence 13, Appl
40	168.5	9.2	2403	US-10-184-644-45	Sequence 45, Appl
41	168.5	9.2	2403	US-10-184-634-45	Sequence 45, Appl
42	168.5	9.2	2316	US-10-123-155-69	Sequence 69, Appl
43	168	9.2	2294	US-10-184-644-283	Sequence 283, App
44	168	9.2	2294	US-10-184-634-283	Sequence 283, App
45	166.5	9.1	1076	US-10-026-072-219	Sequence 219, App

ALIGNMENTS

RESULT 1  
US-10-007-521-12  
; Sequence 12, Application US/10007521  
; Publication No. US20030054539A1  
GENERAL INFORMATION:  
APPLICANT: Schuilein, Martin  
Andersen, Lene N.  
Lassen, Soren P.  
Kauppinen, Markus S.  
Lange, Lene  
Nielsen, Ruby I.  
Ihara, Michiko  
Takagi, Shinobu  
TITLE OF INVENTION: No. US20030054539A1e1 Endoglucanases  
NUMBER OF SEQUENCES: 109  
CORRESPONDENCE ADDRESS:  
ADDRESSER: No. US20030054539A1o No. US20030054539A1disk of No. US200300545  
STREET: 405 Lexington Avenue, 64th Floor  
CITY: New York  
STATE: New York  
COUNTRY: United States of America  
ZIP: 10174-6401  
COMPUTER READABLE FORM:  
MEDIUM TYPE: Floppy disk  
COMPUTER: IBM PC compatible  
OPERATING SYSTEM: PC-DOS/MS-DOS  
SOFTWARE: Patentin Release #1.0, Version #1.30  
CURRENT APPLICATION DATA:  
APPLICATION NUMBER: US/10/007,521  
FILING DATE: 10-Dec-2001  
CLASSIFICATION: <Unknown>  
PRIOR APPLICATION DATA:  
APPLICATION NUMBER: US/08/651,136  
FILING DATE: 21-MAY-1996  
ATTORNEY/AGENT INFORMATION:  
NAME: Lambiris, Elias J.  
REGISTRATION NUMBER: 33,728  
REFERENCE/DOCKET NUMBER: 4366.200-US  
TELECOMMUNICATION INFORMATION:  
TELEPHONE: 212-867-0123  
TELEFAX: 212-878-9655  
INFORMATION FOR SEQ ID NO: 12:

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?      SEQUENCE CHARACTERISTICS:
?      LENGTH: 299 amino acids
?      TYPE: amino acid
?      TOPOLOGY: linear
?      MOLECULE TYPE: protein
?      SEQUENCE DESCRIPTION: SEQ ID NO: 12
US-10-007-521-12

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Query Match	41.2%	Score 756.5	DB 9	Length 239
Best Local Similarity	63.1%	Pred. No. 7.9e-47		
Matches 135	Conservative 30	Mismatches 40	Indels 9	Gaps 4

QY	125	VSGGASNGVTTYRMYMOCCKASCMPKAVSSPYVSKNDGYALTALSDSNAGSGNGNSY	184
Db	18	VASAASSGGSTIRYMOCCKPCSCAMPKAAVSQPTACDAN-FÖRLSDNVOSGCNNGSAY	76
QY	185	MCDNDQFWANDMLAAYFAAAAISGGSESRMCCSFELFTSTSYAGKKMYOVYTNIGD	244
Db	77	SCADQTFWANNDAIAGAATLSIAGGSBSWCACATALFTISGPVAGKTMYVQSITSGGD	130
QY	245	LGSSTGAHFDLQMPGGGVGIENGCSQMKa-PNDMGSRYYGISASAPCSSLPALQAC	304
Db	137	LGSN--QQFDIAMPGGGVGIFNGCSSQFGGLP----GAQYGSISSRDODCSFPAPLXGC	189
QY	304	KWRFNMFKNADNPSPMYKEVTCPKETLTATGCSR	337
Db	190	QMRFDMWFQNADNPLFTFFQOVCALAVASGGR	223

RESULT 2  
 US-10-007-521-2  
 Sequence 2, Application US/10007521  
 Publication No. US20030054539A1  
 GENERAL INFORMATION:  
 APPLICANT: Schuelein, Martin  
 Andersen, Lene N.  
 Lassen, Soren F.  
 Kauppinen, Markus S.  
 Lange, Lene  
 Nielsen, Ruby I.  
 Ihara, Michiko  
 Takagi, Shinobu  
 TITLE OF INVENTION: No. US20030054539A1 Endoglycanases  
 NUMBER OF SEQUENCES: 109  
 CORRESPONDENCE ADDRESS:  
 ADDRESSSEE: No. US20030054539A1o No. US20030054539A1disk of No. US20030054539A1  
 STREET: 405 Lexington Avenue, 64th Floor  
 CITY: New York  
 STATE: New York  
 COUNTRY: United States of America  
 ZIP: 10174-6401  
 COMPUTER READABLE FORM:  
 MEDIUM TYPE: Floppy disk  
 COMPUTER: IBM PC compatible  
 OPERATING SYSTEM: PC-DOS/MS-DOS  
 SOFTWARE: Patent In Release #1.0, Version #1.30  
 CURRENT APPLICATION DATA:  
 APPLICATION NUMBER: US/10/007,521  
 FILING DATE: 10-Dec-2001  
 CLASSIFICATION: <Unknown>  
 PRIOR APPLICATION DATA:  
 APPLICATION NUMBER: US/08/651,136  
 FILING DATE: 21-MAY-1996  
 ATTORNEY/AGENT INFORMATION:  
 NAME: Lambiris, Elias J.  
 REGISTRATION NUMBER: 33,728  
 REFERENCE/DOCKET NUMBER: 4366-200-US  
 TELECOMMUNICATION INFORMATION:  
 TELEPHONE: 212-867-0123  
 TELEFAX: 212-878-9655  
 INFORMATION FOR SEQ ID NO: 2:  
 SEQUENCE CHARACTERISTICS:  
 LENGTH: 225 amino acids

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; TYPE: amino acid
; TOPOLOGY: linear
; MOLECULE TYPE: protein
; SEQUENCE DESCRIPTION: SEQ ID NO: 2:
US-10-007-521-2

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Query Match	41.1%;	Score 755.5;	DB 9;	Length 225;
Best Local Similarity	61.2%;	Pred. No. 6.8e-47;		
Matches 128;	Conservative 35;	Mismatches 41;	Indels 5;	Gaps 3

[illegible]

RESULT 3  
 US-10-007-521-4  
 Sequence 4, Application US/10007521  
 Publication No. US20030054539A1  
 GENERAL INFORMATION:  
 APPLICANT: Schulein, Martin  
 Andersen, Lene N.  
 Lassen, Soren F.  
 Kauppinen, Markus S.  
 Lange, Lene  
 Nielsen, Ruby I.  
 Ihara, Michiko  
 Takagi, Shinobu  
 TITLE OF INVENTION: No. US20030054539A1el Endoglucanases  
 NUMBER OF SEQUENCES: 109  
 CORRESPONDENCE ADDRESS:  
 ADDRESSEE: No. US20030054539A1o No. US20030054539A1disk of No. US20030054539A1  
 STREET: 405 Lexington Avenue, 64th Floor  
 CITY: New York  
 STATE: New York  
 COUNTRY: United States of America  
 ZIP: 10174-6401  
 COMPUTER READABLE FORM:  
 MEDIUM TYPE: Floppy disk  
 COMPUTER: IBM PC compatible  
 OPERATING SYSTEM: PC-DOS/MS-DOS  
 SOFTWARE: Patentin Release #1.0, Version #1.30  
 CURRENT APPLICATION DATA:  
 APPLICATION NUMBER: US/10/007,521  
 FILING DATE: 10-Dec-2001  
 CLASSIFICATION: <Unknown>  
 PRIOR APPLICATION DATA:  
 APPLICATION NUMBER: US/08/651,136  
 FILING DATE: 21-MAY-1996  
 ATTORNEY/AGENT INFORMATION:  
 NAME: Lambiris, Elias J.  
 REGISTRATION NUMBER: 33,728  
 REFERENCE/DOCKET NUMBER: 4366.200-US  
 TELECOMMUNICATION INFORMATION:  
 TELEPHONE: 212-867-0123  
 TELEFAX: 212-878-9655  
 INFORMATION FOR SEQ ID NO: 4:  
 SEQUENCE CHARACTERISTICS:  
 LENGTH: 297 amino acids  
 TYPE: amino acid  
 TOPOLOGY: linear

MOLECULE TYPE: protein  
SEQUENCE DESCRIPTION: SEQ ID NO: 4  
US-10-007-521-4

Query Match 41.1%; Score 755.5; DB 9; Length 297;  
Best Local Similarity 61.2%; Pred. No. 9.3e-47;  
Matches 128; Conservative 35; Mismatches 41; Indels 5; Gaps 3;

QY 130 SGNVTRRWDCCKASCSPGKANVSSPVKSCNKDGVTLSDSNAGCGN-GGNSYWCND 188  
DB 21 SGIGQTRRWDCCKSPCAMPK-GPSSPVQACDKNDPLNDGSTRSGCDAGSAYWCSS 79  
QY 189 NOPMAVNDNLAYFPAAAIISGGESRWCCSFELTFTSTSVAGKQVQVNTNGDLGSS 248  
DB 80 SPMVAVSDELSTYGMVAIVKLAGSSSQWCCACAYELFTSGPVAGKKMIVQATNTGDLGDN 139  
QY 249 TGAHFDLQMPGGGVGIFNCGSSQWGAAPNDGMSRYGSISSADCSLPALQAGCKMRPN 308  
DB 140 ---HFDLAI PGGGVGF FNACTDQYGA PPNGMGDRYGGIHSKECBSPFPAALKPCGMWRPD 196  
QY 309 WPKNADNPSTMYKEVTCPEKITAKTGCSR 337  
DB 197 WFNADNPSTVTFQEVACPSBELTSKSGCSR 225

## RESULT 4

US-10-007-521-6  
Sequence 6, Application US/10007521  
Publication No. US20030054539A1  
GENERAL INFORMATION:

APPLICANT: Schulein, Martin  
Andersen, Lene N.  
Laassen, Soren F.  
Kauppinen, Markus S.  
Lange, Lene  
Nielsen, Ruby I.  
Ihara, Michiko  
Takagi, Shinobu  
TITLE OF INVENTION: No. US20030054539A1el Endoglucanases  
NUMBER OF SEQUENCES: 109  
CORRESPONDENCE ADDRESS:  
ADDRESS: No. US20030054539A1o No. US20030054539A1disk of No. US20030054539A1  
STREET: 405 Lexington Avenue, 64th floor  
CITY: New York  
STATE: New York  
COUNTRY: United States of America  
ZIP: 10174-6401

COMPUTER READABLE FORM:  
MEDIUM TYPE: Floppy disk  
COMPUTER: IBM PC compatible  
OPERATING SYSTEM: PC-DOS/MS-DOS  
SOFTWARE: Patent Release #1.0, Version #1.30  
CURRENT APPLICATION DATA:  
APPLICATION NUMBER: US/10/007,521  
FILING DATE: 10-Dec-2001  
CLASSIFICATION: <Unknown>

PRIOR APPLICATION DATA:  
APPLICATION NUMBER: US/08/651,136  
FILING DATE: 21-May-1996  
ATTORNEY/AGENT INFORMATION:  
NAME: Lambiris, Elias J.  
REGISTRATION NUMBER: 33,728  
REFERENCE/DOCKET NUMBER: 4366,200-US  
TELECOMMUNICATION INFORMATION:  
TELEPHONE: 212-867-0123  
TELEFAX: 212-878-9655

INFORMATION FOR SEQ ID NO: 6:  
SEQUENCE CHARACTERISTICS:  
LENGTH: 308 amino acids  
TYPE: amino acid  
TOPOLOGY: linear  
MOLECULE TYPE: protein  
SEQUENCE DESCRIPTION: SEQ ID NO: 6:

US-10-007-521-6

Query Match 41.1%; Score 755.5; DB 9; Length 308;  
Best Local Similarity 61.2%; Pred. No. 9.6e-47;  
Matches 128; Conservative 35; Mismatches 41; Indels 5; Gaps 3;

QY 130 SGNVTRRWDCCKASCSPGKANVSSPVKSCNKDGVTLSDSNAGCGN-GGNSYWCND 188  
DB 21 SGIGQTRRWDCCKSPCAMPK-GPSSPVQACDKNDPLNDGSTRSGCDAGSAYWCSS 79  
QY 189 NOPMAVNDNLAYFPAAAIISGGESRWCCSFELTFTSTSVAGKQVQVNTNGDLGSS 248  
DB 80 SPMVAVSDELSTYGMVAIVKLAGSSSQWCCACAYELFTSGPVAGKKMIVQATNTGDLGDN 139  
QY 249 TGAHFDLQMPGGGVGIFNCGSSQWGAAPNDGMSRYGSISSADCSLPALQAGCKMRPN 308  
DB 140 ---HFDLAI PGGGVGF FNACTDQYGA PPNGMGDRYGGIHSKECBSPFPAALKPCGMWRPD 196  
QY 309 WPKNADNPSTMYKEVTCPEKITAKTGCSR 337  
DB 197 WFNADNPSTVTFQEVACPSBELTSKSGCSR 225

## RESULT 5

US-09-261-329-7  
Sequence 7, Application US/09261329  
Publication No. US20030092097A1  
GENERAL INFORMATION:

APPLICANT: Andersen, Kim  
Schulein, Martin  
Christiansen, Lars  
APPLICANT: Damgaard, Bo  
APPLICANT: Von Der Oeten, Claus  
TITLE OF INVENTION: Cellulase Variants  
FILE REFERENCE: 4887,204-US  
CURRENT APPLICATION NUMBER: US/09/261,329  
CURRENT FILING DATE: 1999-03-03  
EARLIER APPLICATION NUMBER: 1013/96  
NUMBER OF SEQ ID NOS: 26  
SOFTWARE: FastSeq For Windows Version 3.0  
SEQUENCE ID NO 7  
LENGTH: 205  
TYPE: PRT  
ORGANISM: Cellulase variants  
US-09-261-329-7

Query Match 40.9%; Score 750.5; DB 9; Length 205;  
Best Local Similarity 61.1%; Pred. No. 1.4e-46;  
Matches 127; Conservative 35; Mismatches 41; Indels 5; Gaps 3;

QY 131 GNGVTRRWDCCKASCSPGKANVSSPVKSCNKDGVTLSDSNAGCGN-GGNSYWCND 189  
DB 1 GIGQTRRWDCCKSPCAMPK-GPSSPVQACDKNDPLNDGSTRSGCDAGSAYWCSSQ 59  
QY 190 NOPMAVNDNLAYFPAAAIISGGESRWCCSFELTFTSTSVAGKQVQVNTNGDLGSS 249  
DB 60 SPMVAVSDELSTYGMVAIVKLAGSSSQWCCACAYELFTSGPVAGKKMIVQATNTGDLGDN 118  
QY 250 GAHFDLQMPGGGVGIFNCGSSQWGAAPNDGMSRYGSISSADCSLPALQAGCKMRPN 309  
DB 119 ---HFDLAI PGGGVGF FNACTDQYGA PPNGMGDRYGGIHSKECBSPFPAALKPCGMWRPD 176  
QY 310 WPKNADNPSTMYKEVTCPEKITAKTGCSR 337  
DB 177 WFNADNPSTVTFQEVACPSBELTSKSGCSR 204

## RESULT 6

US-09-261-329-5  
Sequence 5, Application US/09261329  
Publication No. US20030092097A1  
GENERAL INFORMATION:

[illegible]

80 NSPWA SEDI AYGFATATLSGTEGSCWCACAY

Db 80 NSPMAVSEDLAYGFATALSGTEGSWCACAYAITFTSGPVAGKKNVQSTINIGDLSNN 13







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RESULT 15  
 US-09-735-787-4  
 : Sequence 4, Application US/09735787  
 : Patent No. US20010036910A1  
 :  
 : GENERAL INFORMATION:  
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 : APPLICANT: Rasmussen, Grethe  
 : Mikkelson, Jan Moller  
 : Schultze, Martin  
 : Pakkar, Shankant A.  
 : Hagen, Fred  
 :  
 : TITLE OF INVENTION: A Cellulase Preparation Comprising an  
 : Endoglucanase Enzyme  
 :  
 : NUMBER OF SEQUENCES: 33  
 :  
 : CORRESPONDENCE ADDRESS:  
 : ADDRESSEE: NO. US20010036910A1O No. US20010036910A1disk of No. US20010036910A1  
 : STREET: 405 Lexington Avenue, 64th Floor  
 : CITY: New York  
 : STATE: New York  
 : COUNTRY: United States of America  
 : ZIP: 10174-6401  
 :  
 : COMPUTER READABLE FORM:  
 :  
 : MEDIUM TYPE: Floppy disk  
 : COMPUTER: IBM PC compatible  
 : OPERATING SYSTEM: PC-DOS/MS-DOS  
 : SOFTWARE: Patent in Release #1.0, Version #1.30  
 :  
 : CURRENT APPLICATION DATA:  
 : APPLICATION NUMBER: US/09/735,787  
 : FILING DATE: 13-Dec-2000  
 :  
 : CLASSIFICATION: <Unknown>  
 :  
 : PRIOR APPLICATION DATA:  
 : APPLICATION NUMBER: 09/189,028  
 : FILING DATE: <Unknown>  
 :

## ATTORNEY/AGENT INFORMATION:

NAME: Lambiris, Elias J.

REGISTRATION NUMBER: 33,728

REFERENCE/DOCKET NUMBER: 3469, 214-US

## TELECOMMUNICATION INFORMATION:

TELEPHONE: 212-867-0123

TELEFAX: 212-878-9655

## INFORMATION FOR SEQ ID NO: 4:

SEQUENCE CHARACTERISTICS:

LENGTH: 376 amino acids

TYPE: amino acid

TOPOLOGY: linear

MOLECULE TYPE: protein

SEQUENCE DESCRIPTION: SEQ ID NO: 4:

US-09-735-787-4

Query Match 37.8%; Score 694; DB 10; Length 376;

Best Local Similarity 58.6%; Pred. No. 3e-42;

Matches 126; Conservative 33; Mismatches 48; Indels 8; Gaps 5;

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QY 124 AVSGASGNGVTRRYMDCKASCSWPGKAVVSSPVKSCNKGVTALSDSNAGCNGNS 183
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DB 14 AVS-AASGSHSTRYMDCKPSCSWGKAAVNAAPALTCDDND-NPLSNINAVNGCGGGS 71
    ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
QY 184 -YMCNDNQPAVNDNLAYGFAAAAIISGGSRWCCSCFELFTSTSVAGKKMVOVTNTG 242
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DB 72 AYACTNYSFPAVNDLALYGFATKISGGSSEASWCACAYALFTTGPKKKMIVQSINTG 131
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QY 243 GDIGSSTGAHFDLQMPGGVGVIENGCSQWGAPENDGWSRYGIISSASDCSLPSALQAG 302
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DB 187 CHMRFDMFENADNPDTFEOVQCPKALDISGCKR 221
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Search completed: June 18, 2003, 17:44:40

Job time : 74.5077 secs